10/567168

IAP20 Rec'd PCT/PTO 03 FEB 2006

SEQUENCE LISTING

<110>	National Institute of Advanced Industrial Science and Techno Takagi, Yasuomi	olog
<120>	A method for efficient preparation of dumbell-shaped DNA	
<130>	FP-041PCT	
<140>	+	
<141>		
<150>	JP P2003-206905	
<151>	2003-08-08	
<160>	25	
<170>	Patentin Ver. 2.1	
<210>	1	
<211>	245	
<212>	DNA	•
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: synthetic DNA	
<400>	1	
aaggto	gggc aggaagaggg cctattttcc atgattcctt catatttgca tatacgatac	60
aaggct	gtta gagagataat tagaattaat ttgactgtaa acacaaagat attagtacaa	120
aatacg	tgac gtagaaagta ataatticti gggtagtiig cagiittaaa attaigiitt	180
aaaatg	gact atcatatgct taccgtaact tgaaagtatt tcgatttctt ggctttatat	240
atctt		245
<210>	2	
<211>	•	
<212>		
-	Artificial Sequence	
(2.0)		
〈220〉		
(223)	Description of Artificial Sequence: synthetic DNA	
(400>		
	tgca tgtcgctatg tgttctggga aatcaccata aacgtgaaat gtctttggat	60
ttggga	atct tataagttct gtatgagacc acagatcgat cccc	104

```
⟨210⟩ 3
<211> 86
 <212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: synthetic DNA
<400> 3
accettegett tecetagtet agtegettate acettegeet aacaceceaa ageteeeceg 60
ttcgaaaccg ggcactacaa aaacca
⟨210⟩ 4
(211) 14
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 4
ggntggnngg ntgg
                                                                    14
<210> 5
⟨211⟩ 15
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: synthetic DNA
<400> 5
                                                                    15
ggntggnnng gntgg
⟨210⟩ 6
<211> 16
<212> DNA
<213> Artificial Sequence
<220>
<223 Description of Artificial Sequence: synthetic DNA
<400> 6
                                                                    16
ggntggnnnn ggntgg
```

፣ :

```
⟨210⟩ 7
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 7
ggntggnnnn nggntgg
                                                                   17
<210> 8
<211> 15
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 8
                                                                   15
ggcgttcggg gggta
<210> 9
<211> 63
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: synthetic DNA
<400> 9
ggctatgtct aggagtgtac ctagaattac atcaagggag atggtgcgct cctggacgta 60
<210> 10
<211> 53
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: synthetic DNA
```

<400> 10

4	4		
ı	· •		
	gggtaattgg tagattaagc ggtgtgctgt cccgcttgat ctgccaattg ccc	53	
•	⟨210⟩ 11		
	⟨211⟩ 43	•	
	<212> DNA		
	<213> Artificial Sequence		
	(000)		
	⟨220⟩	•	
	<2235 Description of Artificial Sequence: synthetic DNA		• 100
	⟨400⟩ 11		
	gggaattcac ctgccggcga gggttttccc agtcacgacg ttg	43	
		5 :	
. TN	(040) 40	***	
	⟨210⟩ 12	•	
	<211> 46 (210) DNA		•
	<212> DNA		
	<213> Artificial Sequence	•	
	⟨220⟩		
	<223> Description of Artificial Sequence: synthetic DNA		
	(400\\ 10		
	<400> 12 ggctgcagac ctgccggcca ccgagcggat aacaatttca cacagg	46	
. 00	5501500500 0150055000 005055501 0000011160 600055	40	•
•	⟨210⟩ 13		•
	⟨211⟩ 34		
	<212> DNA		
•	<213> Artificial Sequence		
	<220>		
	<223> Description of Artificial Sequence: synthetic DNA		
		•	
	<400> 13		
•	ggtgtgtccg cgttggcttt tgccaacgcg gaca	34	
		•	
	⟨210⟩ 14		
	<211> 59		
	<212> DNA		
	<213> Artificial Sequence		
	⟨220⟩		
	<223> Description of Artificial Sequence: synthetic DNA		
	⟨400⟩ 14		
	\700/ 17		
		·	

cctcggccta tagtgagtcg tattaggcgg gaaccgccta atacgactca ctataggc	5 59
⟨210⟩ 15	
⟨211⟩ 41	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: synthetic DNA	
<400> 15	
ttaggagttt tctcctaagc gttttcccag tcacgacgtt g	41
<210> 16	
⟨211⟩ 41	
<212> DNA	
<213> Artificial Sequence	•
<220>	
<223> Description of Artificial Sequence: synthetic DNA	
<400> 16	
ttaggagttt tctcctaagc gttttcccag tcacgacgtt g	41
⟨210⟩ 17	
⟨211⟩ 41	
(212) DNA	
<pre><213> Artificial Sequence</pre>	
⟨220⟩	
(223) Description of Artificial Sequence: synthetic DNA	
(400) 17	
ttaggagttt tctcctaagc gttttcccag tcacgacgtt g	41
·	
(210> 18	
(211) 44	
(212) DNA	
(213) Artificial Sequence	
220>	•
223> Description of Artificial Sequence: synthetic DNA	

; :

```
<400> 18
ttaggtcttt tgacctaagc gagcggataa caatttcaca cagg
<210> 19
<211> 39
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 19
gttttcccag tcacgacgtt gaaggtcggg caggaagag
                                                                   39
<210> 20
<211> 44
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 20
gagcggataa caatttcaca caggaaaaaag gctacgtcca ggag
                                                                   44
⟨210⟩ 21
<211> 417
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 21
ttaggagttt tctcctaagc gttttcccag tcacgacgtt gaaggtcggg caggaagagg 60
gcctattttc catgattcct tcatatttgc atatacgata caaggctgtt agagagataa 120
ttagaattaa tttgactgta aacacaaaga tattagtaca aaatacgtga cgtagaaagt 180
aataatttct tgggtagttt gcagttttaa aattatgttt taaaatggac tatcatatgc 240
ttaccgtaac ttgaaagtat ttcgattict tggctttata tatcttgtgg aaaggacgaa 300
acaccggcta tgtctaggag tgtacctaga attacatcaa gggagatggt gcgctcctgg 360
acgtagcctt tttcctgtgt gaaattgtta tccgctcgct taggtcaaaa gacctaa
<210> 22
<211> 93
<212> DNA
```

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 22
tttcccatga ttccttcata tttgcatctt accgtaactt gaaagtattt cgatttcttg 60
gctttatata tcttgtggaa aggacgaaac acc
<210> 23
<211> 109
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 23
titcccatga ttccttcata titgcatata ggactatcat atgcttaccg taactigaaa 60
gtatttcgat ttcttggctt tatatatctt gtggaaagga cgaaacacc
<210> 24
<211> 58
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: synthetic DNA
<400> 24
gcagaagcta tgaaacgatt tgcttcctgt cacaaatcgt tcatagcttc tgcttttt 58
<210> 25
<211> 240°
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic DNA
<400> 25
tttcccatga ttccttcata tttgcatata cgatacaagg ctgttagaga gataattaga 60
attaatttgc ctgtaaacac aaagatatta gtacaaaata cgtgacgtag aaagtaataa 120
tttcttgggt agtttgcagt tttaaaatta tgttttaaaa tggactatca tatgcttacc 180
gtaactigaa agtatticga titctiggct tiatatatct tgtggaaagg acgaaacacc 240
```